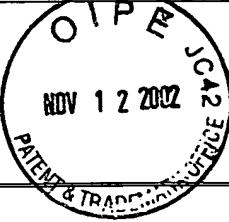


Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9769	Application Number: 09/752,586			
Page 1 of 2 		First Named Inventor: Michael Kozuch, et al.	RECEIVED NOV 13 2002 Technology Center 2100			
		Filing Date: December 27, 2000				
U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
100		5,455,909		James S. Blomgren, et al.	10-03-1995	

FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		Office ³	Number ⁴	Kind (If known)				
114		EP0600112		A1	Siemens Nixdorf Information System	06-08-1994		X Abstract only
114		EP0930567		A3	Texas Instruments, Inc.	07-21-1999		
115		EP1146715		A1	ContentGuard Holdings, Inc.	10-17-2001		
110		WO 98/34365			AT & T Corporation	08-06-1998		
118		WO 98/44402			British Telecommunications Public Limited Company	10-08-1998		
116		WO 99/05600			Apple Computer, Inc.	02-04-1999		
119		WO 99/09482			Siemens Nixdorf Information System	02-25-1999		X Abstract only
117		WO 99/57863			International Business Machines Corp.	11-11-1999		
115		WO 00/62232			Digital Media On Demand, Inc.	10-19-2000		

Examiner Signature		Date Considered	
--------------------	---	-----------------	---

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9769	Application Number: 09/752,586
Page 2 of 2		First Named Inventor: Michael Kozuch, et al.	RECEIVED NOV 13 2002 Technology Center 2100
		Filing Date: December 27, 2000	

OTHER ART - NO PATENT LITERATURE DOCUMENTS

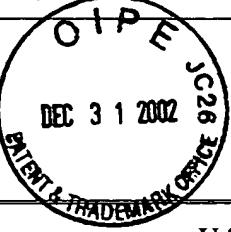
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
11		BERG, Cliff, "How Do I Create A Signed Applet?" Dr. Dobb's Journal, August 1997, pages 1-9	
116		GOLDBERG, Robert P., "Survey of Virtual Machine Research," IEEE Computer Magazine Vol. 7, No. 6, pages 34-45, 1974	
116		GONG, Li, et al., "Going Beyond the Sandbox: An Overview of the New Security Architecture in the Java Development Kit 1.2," JavaSoft, Sun Microsystems, Inc., Proceedings of the USENIX Symposium on Internet Technologies and Systems, Monterey, California, 11 pages December 1997	
116		GUM, P.H., "System/370 Extended Architecture: Facilities for Virtual Machines," IBM J. Research Development, Vol. 27, No. 6, pages 530-544, November 1983	
116		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Second Edition, Chapter 4: Memory Management, pages 67-79	
116		INTEL CORPORATION, Intel386™ DX Microprocessor, 32-Bit CMOS Microprocessor With Integrated Memory Management, 56 pages, December 1995	
116		LAWTON, K., "Running Multiple Operation Systems Concurrently On An IA32 PC Using Virtualization Techniques," http://www.plex86.org/research/paper.txt ., pp 1-31, downloaded August 9, 2001	
116		MOTOROLA, M68040 User's Manual (Including the MC68040, MC68040V, MC68LC040, MC68EC040, and MC68EC040V), Revised 1993	
116		ROSENBLUM, M., "VMware's Virtual Platform™ A Virtual Machine Monitor for Commodity PCs," Proceedings of the 11th Hotchips Conference, Stanford University Palo Alto, California, pages 185-196, August 1999	

Examiner Signature	<i>Michael Kozuch</i>	Date Considered	<i>March 9, 05</i>
--------------------	-----------------------	-----------------	--------------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9769	Application Number: 09/752,586		
Page 1 of 1		First Named Inventor: Michael Kozuch, et al.			
		Filing Date: December 27, 2000			
		U.S. PATENT DOCUMENTS			
Exam. Initial*	Cite No. ¹	U.S. Patent Document Number Code ² (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
			RECEIVED	JAN 03 2003		
			Technology Center 2100			

OTHER ART - NO PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				Translation ²
118		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Chapter 4, Memory Management, pages 61-97, 1993				

Examiner Signature		Date Considered	March 8, 2004
--------------------	---	-----------------	---------------

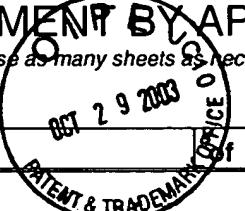
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

(use as many sheets as necessary)



Sheet 1

Page 4

Attorney Docket Number 042390.P9769

Complete if Known

Application Number	09/752,586
Filing Date	12/27/00
First Named Inventor:	M. Kozuch, et al.
Group Art Unit	2151
Examiner Name	Unassigned

U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)		
16		2001/0021969	A1	Burger, Stephen, G., et al.	09-13-2001
1		2001/0027527	A1	Khidekel, Yuri, et al.	10-04-2001
		4,037,214		Birney, Richard E. et al.	07-19-1977
		4,247,905		Yoshida, Yukihiro, et al.	01-27-1981
		4,347,565		Kaneda, Saburo, et al.	08-31-1982
		4,571,672		Hatada, Minoru, et al.	02-18-1986
		5,079,737		Hackbarth, Holden, G.	01-07-1992
		5,319,760		Mason, Andrew H., et al.	06-07-1994
		5,317,705		Gannon, Patrick M., et al.	05-31-1994
		5,386,552		Garney, John I.	01-31-1995
		5,437,033		Inoue, Taro, et al.	07-25-1995
		5,504,922		Seki, Yukihiro, et al.	07-02-1996
		5,511,217		Nakajima, Atsushi, et al.	04-23-1996
		5,522,075		Robinson, Paul T., et al.	05-28-1996
		5,628,022		Ueno, Masahiro, et al.	05-06-1997
		5,737,604		Miller, David A., et al.	04-07-1998
		5,737,760		Grimmer, Jr., George G., et al.	04-07-1998
		5,757,604		Bennett, Jeffrey, Jr., et al.	05-26-1998
		5,757,919		Herbert, Howard C., et al.	05-26-1998
		5,852,717		Bhide, C. H., et al.	12-22-1998
		5,854,913		Goetz, John W., et al.	12-29-1998
		5,872,994		Akiyama, Shin-Ichiro, et al.	02-16-1999
		5,953,502		Helbig, Sr., Walter A.	09-14-1999
		6,055,637		Hudson, Jerome, D., et al.	04-25-2000
		6,075,938		Bugnion, Edouard, et al.	06-13-2000
		6,085,296		Nitin Y. Karkhanis	07-04-2000
		6,101,584		Satou, Mitsugu, et al.	08-08-2000
		6,125,430		Karen L. Noel, et al.	09-26-2000
		6,148,379		Curt F. Schimmel	11-04-2000
		6,182,089		Ganapathy, Narayanan, et al.	01-30-2001
		6,192,455	B1	Zohar Bogin, et al.	02-20-2001
		6,249,872	B1	Frank L. Wildgrube, et al.	06-19-2001

RECEIVED

OCT 31 2003

Technology Center 2000

Examiner Signature

Date Considered

March 9, 2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

OCT 31 2003

Technology Center 2100



Substitute for Form 1449A/PTO (Modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

<i>Complete if Known</i>	
Application Number	09/752,586
Filing Date	12/27/00
First Named Inventor:	M. Kozuch, et al.
Group Art Unit	2151
Examiner Name	Unassigned
Attorney Docket Number	042390.P9769

Sheet 2 of 4

Attorney Docket Number 042390.P9769

U.S. PATENT DOCUMENTS

Examiner
Signature

Date Considered

March 9, 1906

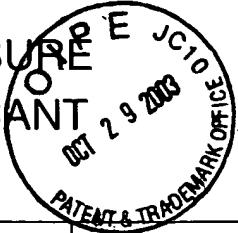
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

*Complete if Known*

Application Number	09/752,586
Filing Date	12/27/00
First Named Inventor:	M. Kozuch, et al.
Art Unit	2151
Examiner Name	Unassigned

Sheet	3	of	4	Attorney Docket Number	042390.P9769
-------	---	----	---	------------------------	--------------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US-			RECEIVED	OCT 31 2003

Technology Center 2100**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
<i>MM</i>		DE 42177444 A1	12-03-1992	Hitachi Ltd.		
		EP 1030237 A1	08-23-2000	Hewlett Packard Company		
		JP76139 A0	3-14-2000	Nippon Telgr. & Telph. Corp.		
		WO 97/29567 A1	08-14-1997	Fortress U & T, Ltd.		
		WO 01/75565 A2	10-11-2001	Intel Corporation		
		WO 01/75595 A2	10-11-2001	Intel Corporation		
		WO 01/27723 A2	04-19-2001	Hewlett Packard Company		
		WO 01/27821 A2	04-19-2001	Hewlett Packard Company		
		WO 01 75564	10/11/2001	Intel Corporation		
		WO 02 17555	02/28/2002	Verisign, Inc.		
<i>BB</i>		WO 02 086684	10/31/2002	Hewlett Packard		

Examiner Signature

Robert S.

Date Considered

March 9, 2004

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

OCT 29 2003

Sheet

4

4

Complete if Known

Application Number	09/752,586
Filing Date	12/27/00
First Named Inventor:	M. Kozuch, et al.
Art Unit	2151
Examiner Name	Unassigned
Attorney Docket Number	042390.P9769

RECEIVED

OCT 31 2003

Technology Center 2100

OCT 29 2003

PATENT & TRADEMARK OFFICE

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
JKS		CHIEN, ANDREW A., et al., "Safe and Protected Execution for the Morph/AMRM Reconfigurable Processor," 7th Annual IEEE Symposium, FCCM '99 Proceedings 4/21/1999, pp. 209-221, XP010359180, ISBN: 0-7695-0375-6, Los Alamitos, CA.	
PS		IBM Technical Disclosure Bulletin, "Information Display Technique For A Terminate Stay Resident Program," Vol. 34, Issue No. 7A, Pages 156-158, December 1, 1991.	
PS		KARGER, PAUL A., et al., "A VMM Security Kernel for the VAX Architecture," Proceedings of the Symposium on Research in Security and Privacy, 5/7/1990, pp. 2-19, XP010020182, ISBN: 0-8186-2060-9, Boxborough, MA.	
PS		KASHIWAGI, KAZUHIKO, et al., "Design and Implementation of Dynamically Reconstructing System Software," Software Engineering Conference, 1996 Asia Pacific Seoul, South Korea, IEEE Comput. Soc. December 4, 1996, pages 278-287	
PS		PCT Search Report dated 7/29/03 (U.S. Patent No. '075 Previously cited).	
PS		PCT Search Report dated 7/22/03	
RS		ROBIN, JOHN SCOTT and IRVINE, CYNTHIA E., "Analysis of the Pentium's Ability to Support a Secure Virtual Machine Monitor," Proceedings of the 9th USENIX Security Symposium, 8/14/2000, pp. 1-17, XP002247347, Denver, CO.	

Examiner
SignatureDate
Considered

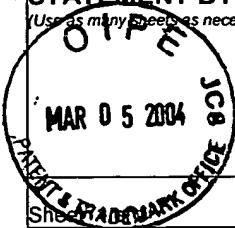
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
 (Use as many sheets as necessary)



Complete if Known

Application Number	09/752,586
Filing Date	December 27, 2000
First Named Inventor	Grawrock, David
Group Art Unit	2127
Examiner Name	Shah, Nilesh

RECEIVED

MAR 09 2004

Attorney Docket No: 42P09769

Technology Center 2100

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
NC	EP-EP0473913	03/11/1992	Farrell, Joel A.			

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RS		BRANDS, STEFAN , "Restrictive Blinding of Secret-Key Certificates", SPRINGER-VERLAG XP002201306, (1995),Chapter 3	
RS		DAVIDA, GEORGE I., et al., "Defending Systems Against Viruses through Cryptographic Authentication", <u>Proceedings of the Symposium on Security and Privacy</u> , IEEE Comp. Soc. Press, ISBN 0-8186-1939-2,(May 1989),	
RS		INTEL, "IA-32 Intel Architecture Software Developer's Manual", <u>Volume 3: System Programming Guide</u> , Intel Corporation - 2003,13-1 through 13-24	
RS		LUKE, JAHN , et al., "Replacement Strategy for Aging Avionics Computers", <u>IEEE AES Systems Magazine</u> , XP002190614,(March 1999),	
RS		MENEZES, OORSCHOT , "Handbook of Applied Cryptography", <u>CRC Press LLC</u> , USA XP002201307, (1997),475	
RS		RICHT, STEFAN , et al., "In-Circuit-Emulator Wird Echtzeittauglich", <u>Elektronic</u> , Franzis Verlag GMBH, Munchen, DE, Vol. 40, No. 16, XP000259620,(100-103),8-6-1991	
RS		SAEZ, SERGIO , et al., "A Hardware Scheduler for Complex Real-Time Systems", <u>Proceedings of the IEEE International Symposium on Industrial Electronics</u> , XP002190615,(July 1999),43-48	
RS		SHERWOOD, TIMOTHY , et al., "Patchable Instruction ROM Architecture", <u>Department of Computer Science and Engineering</u> , University of California, San Diego, La Jolla, CA, (Nov. 2001),	

EXAMINER

Nilesh

DATE CONSIDERED

March 9, 04